Manual
DigitDia 6000
CyberView X5

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FEDERAL COMMUNICATIONS COMMISSION (FCC) STATEMENT

This Equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from which the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

Warning :
Use only shielded signal cables to connect I/O devices to this equipment.
You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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GETTING STARTED

Check the package content before getting started.
For Quick Installation please refer to Quick Installation Guide. (Ref. Pg. 6)

Important! Save the original box, receipt and packing material for future shipping needs.

Package Contents

- Slide Scanner.
- Magazine.
- Power Adapter
- USB Cable
- Scansoftware CyberView
- Application Software

Warning! Using any other power adapter may severely damage the scanner and will void the product warranty.

NOTE:

- Application software means the imaging software such as Adobe® Photoshop® Elements, this is subject to change without notice.
- The orange adapter on the transport arm and the arm itself are excluded from guarantee.

GENERAL GUIDANCE:

- Only use the supplied USB-Cable. Connect the scanner to the computer directly using the USB 2.0 cable.
- Do not use a hub or extension cable. Only use the USB ports on the rear of desktop computers.
- If there are any other devices (multifunction device, printers, scanners, webcam) connected to the computer through USB, disconnect them.
- A minimum of 1GB RAM (Win/Mac) is required.
- Magic Touch doesn´t work with B&W and Kodachrome Film. You have to deactivate it.

Operating Ambient Temperature Range 50º to 104ºF (10º to 40ºC)
Note: Do not turn on the scanner unless it is within this temperature range. If the scanner has been stored or transported outside of this temperature range then wait till it has acclimatized before turning it on.
Operating Ambient Humidity Range 15% to 76% relative humidity (non-condensing)
Note: If the scanner is stored or to be transported in cold temperature and then brought into a warm / humid environment condensation may occur.

This device is designed for private use only with a guarantee of 2 years or 20,000 scans. It is not intended for commercial use. If used in a commercial way or defects arise from inappropriate use, or stress then the guarantee is reduced to 1 year.

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QUICK INSTALLATION GUIDE (QIG)

INSTALLING SOFTWARE AND DRIVER

for PC (Windows) User

Windows Systems installation during driver installation a warning dialogue box may appear, if this is the case please select "install this driver anyway."

Notice:

1. In "Found New Hardware Wizard" window, select "Search automatically or Browse computer for driver software."
2. In "Completing the Found New Hardware Wizard" window, click "Finish".

Note: Not all PC´s will display the found new hardware window, some will install in the background.

Be sure to install the Application Software before installing the scanner CyberView driver.
You may install the scanner driver directly if you have already installed TWAIN compliant application software in your computer. Mac users can use iPhoto for editing.

INSTALLING SOFTWARE AND DRIVER

Before Installing the Scanner Driver...

If you choose to use the provided application for image editing, install the application software (ex: Adobe® Photoshop® Elements) by inserting the application CD into the computer's CD/DVD drive. Follow the instructions that will be displayed in a window that opens automatically.

Installing Scanner Driver

a. Insert driver CD into the computer CD/DVD drive and explore the contents.
b. Double click the "CyberView" icon to begin the installation process. Follow the onscreen prompts to complete the installation process.

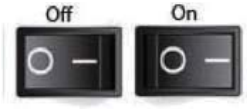
   NOTE: Make sure the scanner is NOT connected to the computer during the CyberView driver installation.

c. Restart computer once the installation process is complete.

Installing Hardware

a. Connect the slide scanner to a power source.

   1. Locate the power switch on the lower left side of the scanner. Make sure the scanner is TURNED OFF.

   2. Plug the AC adapter into an AC power source FIRST before plugging it into the scanner.

   3. Attach the USB cable to the computer using the standard USB adapter end. Attach the USB adapter end of the cable to back panel of the scanner.

b. Ensure the scanner does NOT have a slide magazine loaded, turn the scanner ON. The calibration cycle on the scanner will start automatically and will take several minutes to complete. A green light will flash while the calibration is in progress. The slide transport arm will move in and out of the scanner. MAKE SURE THERE IS ENOUGH ROOM IN FRONT OF THE SCANNER FOR THE SLIDE TRANSPORT ARM TO EXTEND FULLY, DO NOT PUSH THE ARM BACK DURING CALIBRATION.

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Loading slide(s) into the magazine

General Recommendations:

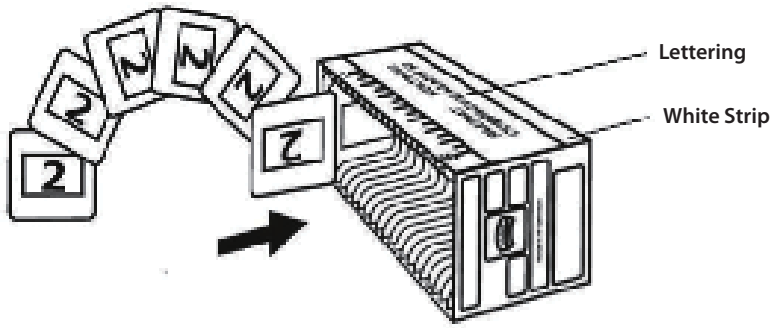
- Braun Paximat (White tray) especially for cardboard frames and framed slides up to 2-3.2mm inch thickness.
- Braun Paximat S (grey) for framed slides up to 2 mm
- Paximat Magazine (Black tray) for framed slides up to 2mm thickness.
- CS Magazine for CS/CS2-framed slides.
- Universal Magazine DIN 108 (cardboard frames)
- Glass slides that are attached to glass frames may cause complications due to the hard edges.
- LKM Magazine for slides up to 1,8 mm thickness (cardboard frames)

Compact Magazine

a. As illustrated below, turn the magazine with the embossed lettering "COMPACT MAGAZINE 50" and the white strip on the right facing towards the top.
b. Hold the slide right side up, facing forward so the image is NOT reversed. Rotate the slide as illustrated and Insert each slide, one at a time, into the magazine.

Warning: Load slides into the magazine properly and make sure the slide mounts are in good condition. Improperly inserted slides or slides with distorted/damaged slide mounts may cause the scanner to jam and potentially damage both the slide and the scanner.

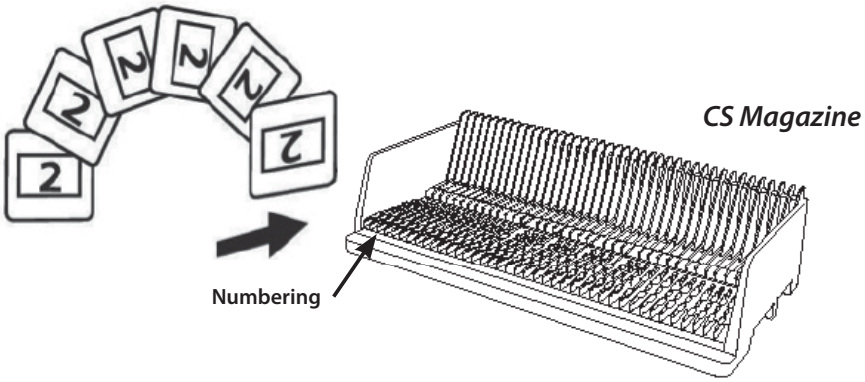
Compact Magazine



Loading slide(s) into the magazine

CS Magazine

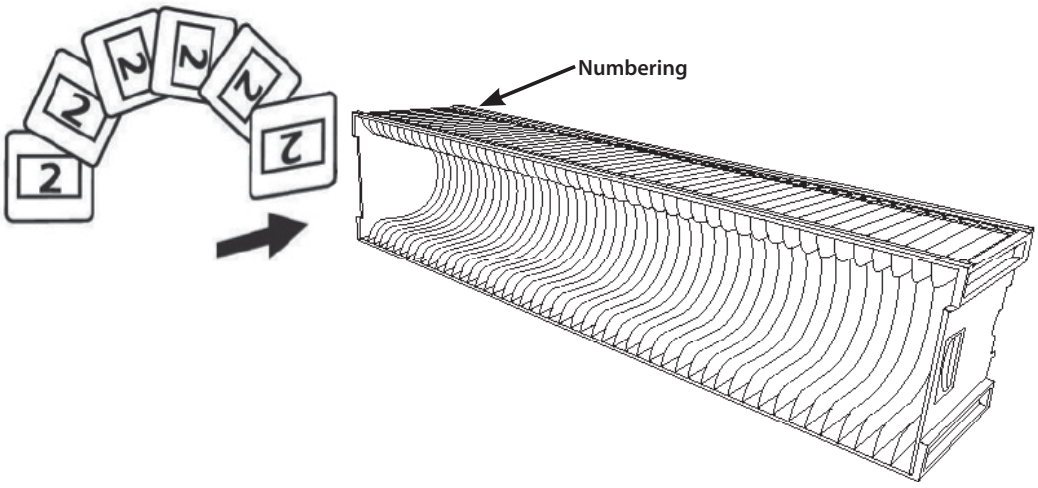
a. Locate the numbering sequence text on the CS slide magazine indicating the slide order. The numbers should be facing up and starting from the left.
b. Hold the slide right side up, facing forward so the image is NOT reversed. Rotate the slide as illustrated and Insert each slide, one at a time, into the magazine.



Loading slide(s) into the magazine

Paximat Magazine (white and grey)

a. Locate the numbering sequence text on the top of the Paximat slide magazine indicating the slide order. The numbers should be facing up and starting from the left.
b. Hold the slide right side up, facing forward so the image is NOT reversed. Rotate the slide as illustrated below (180 deg) and Insert each slide, one at a time, into the magazine.



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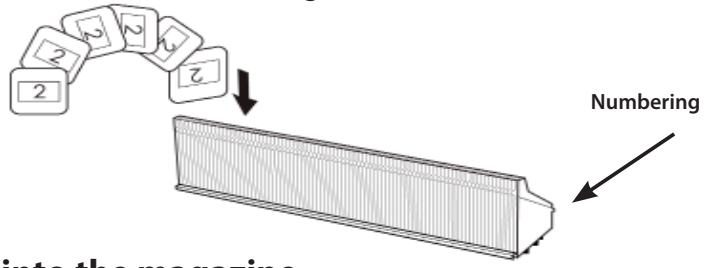
Loading slide(s) into the magazine

LKM Magazine

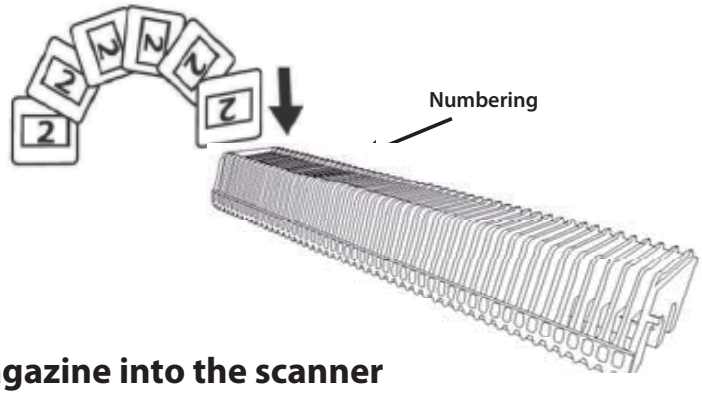
a. Locate the numbering sequence text on the front of the LKM slide magazine indicating the slide order. The numbers should be facing forward and starting from the right
b. Hold the slide right side up, facing forward so the image is NOT reversed. Rotate the slide as illustrated below (180 deg) and Insert each slide, one at a time, into the magazine.



Loading slide(s) into the magazine

Universal Magazine

a. Locate the numbering sequence text on the top of the Universal slide magazine indicating the slide order. The numbers should be facing up and starting from the left.
b. Hold the slide right side up, facing forward so the image is NOT reversed. Rotate the slide as illustrated below (180 deg) and Insert each slide, one at a time, into the magazine.



Load magazine into the scanner

NOTE: For all magazines (except for the Universal Magazine)

- Return the orange adapter to its original position at the grip of the slide transport arm after scanning.
- To release the adapter, gently press its outer tip.

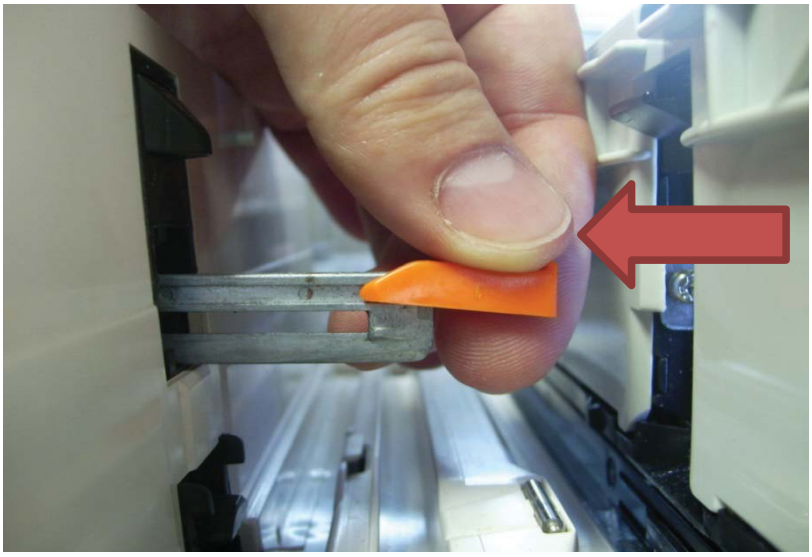
a. Remove the cover from scanner exposing the slide magazine loading area.
b. Load the magazine into the scanner as illustrated below.

Note: Orientation of scanner in the diagrams is from the back of the unit. Take note of the magazine slide opening also facing towards the back of the scanner for correct orientation when loading into the scanner.

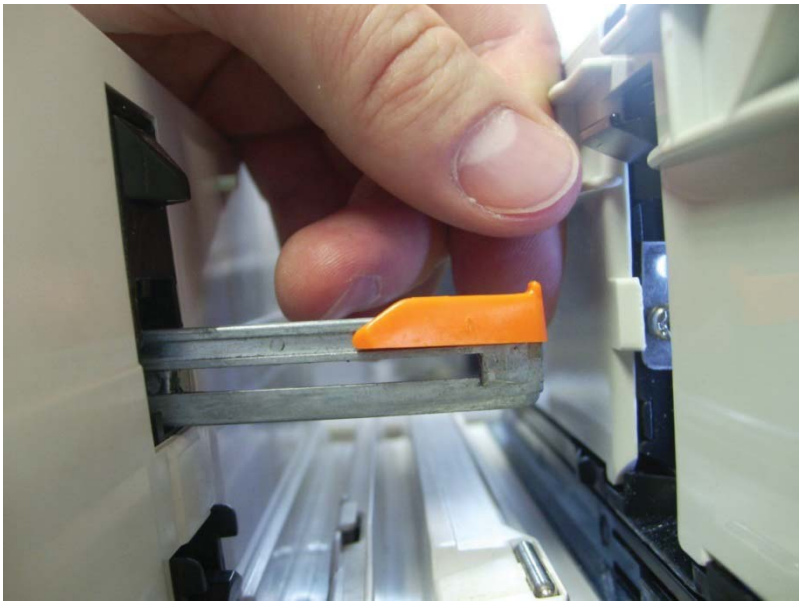
Fitting orange Adapter:

1. Push the adapter from the front onto the transport arm.

   Pay attention of correct orientation of the adapter.



2.



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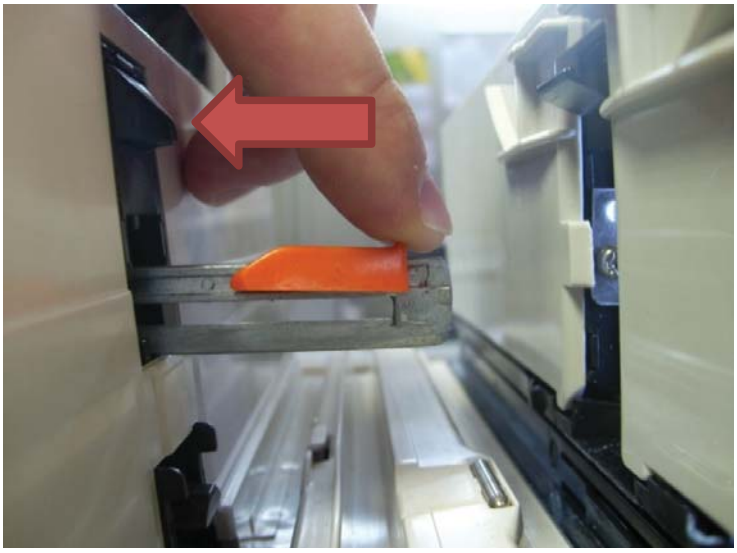
1. When using **CS**, **LKM** and **Paximat** **Slide Tray** you have to move the adapter back. Therefore gently press down the adapter…

4. … and push it to the end position



5. When using UNIVERSAL Slide Magazines you have to move the adapter to the front of the transport arm.

oad the magazine into the scanner (Continued)

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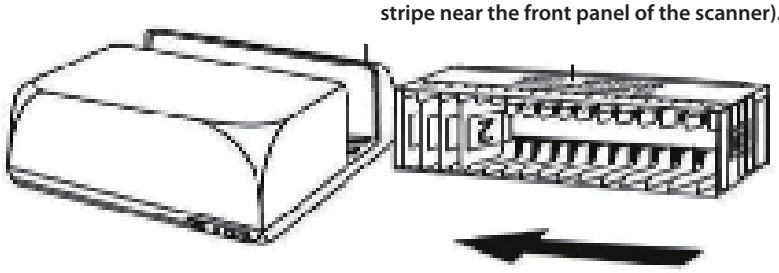
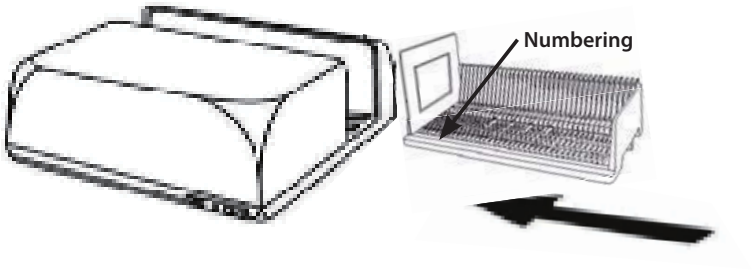
Compact Magazine

(embossed letters facing up and the white stripe near the front panel of the scanner).



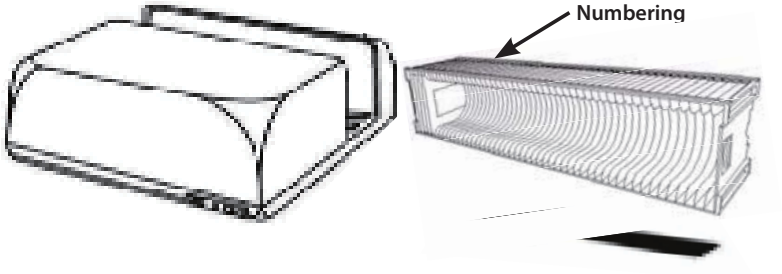
CS Magazine

Slide order numbers printed on magazine facing towards the back of the scanner.



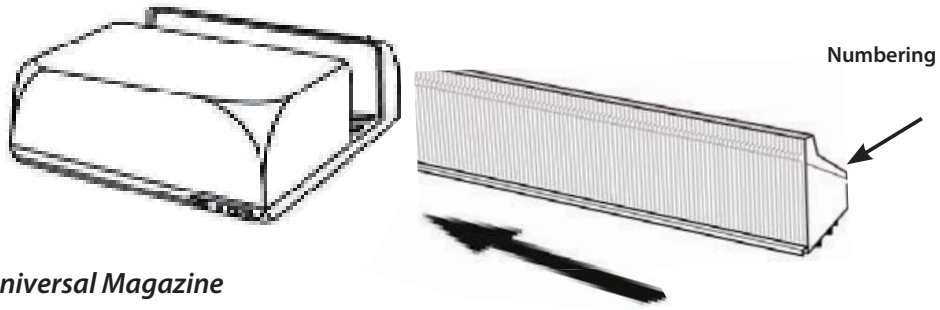
Paximat Magazine (white and grey)

Slide order numbers printed on top of magazine on the right hand side towards the front of the scanner.



LKM Magazine

Turn the slide tray around so the numbers face the front of the device, before inserting



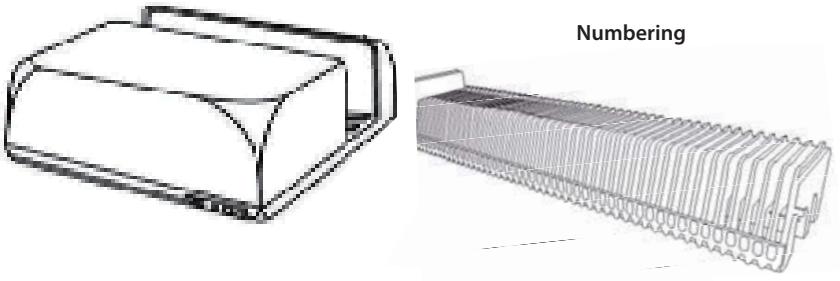
Universal Magazine

NOTE:

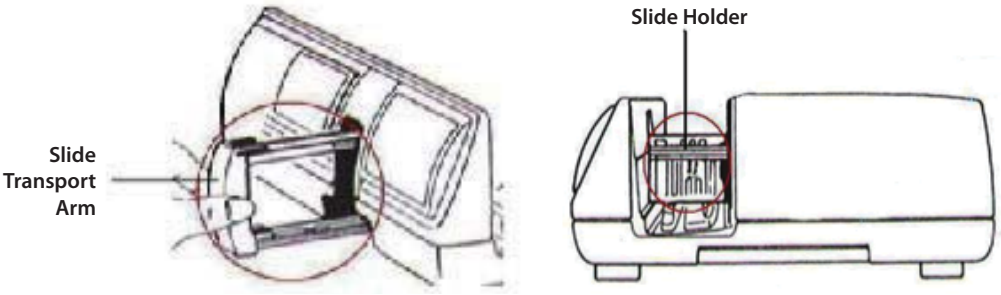
- Use only Universal Magazines with the DIN 108 label. Other magazines may result in problems and VOIDing the warranty.
- Pull out the slide transport arm fully.
- Gently press the orange adapter on the slide transport arm. Move the adapter on the slide transport arm to the front until it snaps in.
- Push the slide transport arm back into the scanner.
- Load the magazine from the back in the respective guiding rails of the magazine tunnel until it hits the slide transport arm.

Universal Magazine

Slide order numbers printed on top of magazine on the right hand side of magazine towards the front of the scanner when loading.



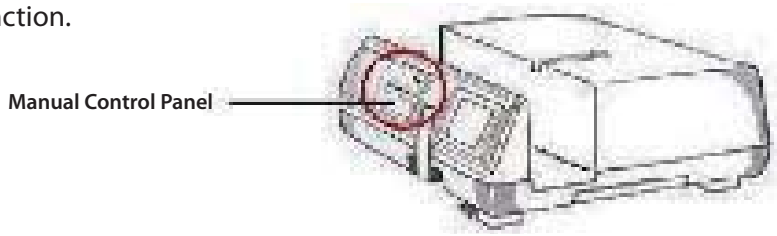
c. Place the slide magazine into the scanner from the left side until it touches the slide transport arm and the magazine "clicks" into place.



Additional features

Manual Control Panel

a. You can advance or reverse the slide by pressing the navigation button or and scan manually with the scan button to enable one button scan function.



Please Note: When installing your new scanner onto a Windows system that already has another USB Flatbed scanner or All-in-one Scan/Copier/Printer device installed, it may be necessary for you to disconnect the other scanner from the USB port for the Film scanner to work properly,

One Button Scan

1. Open the CyberView (Ref. page 16 to acquire the CyberView driver program)

2. Configure Scan Settings (see Page 17)

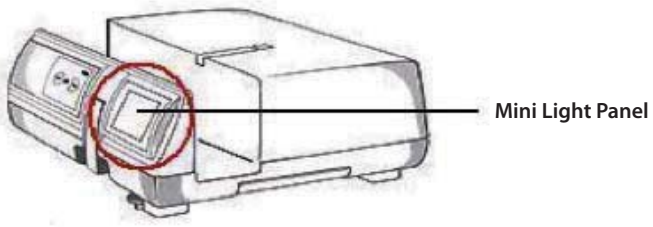
3. Select the Scan to directory, file format (TIF or JPG, once configured, Press the scanner button ( ) to begin scanning.

NOTE: If you do not open CyberView FIRST, the scan button will not function.

c. Slide Viewer

The scanner has a built in mini light panel which allows the slides to be manually previewed with a backlight before inserting into the tray for scanning.

Insert the slide into the slide viewer for previewing. The scanner has to be switched on. Gently press down on the top of the slide to engage the back light for viewing the slide.



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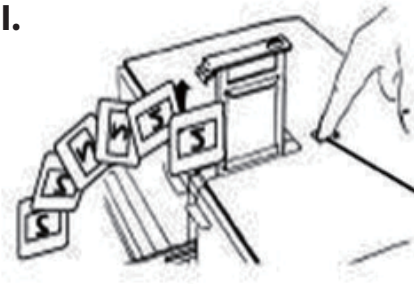
d. Single Slide Scanning

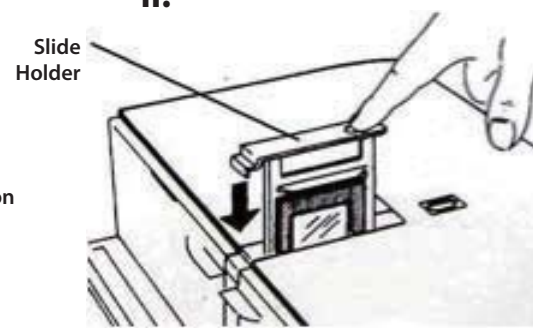
- Load the empty magazine into the tunnel FIRST until it touches the slide transport arm completely. Slide the magazine forward to be sure that the transport arm is in the first slot of the magazine.
- Press the eject button [I] to make the slide holder open exposing the loaded slide.
- Place the slide as illustrated [I] into the slide holder and press the slide holder down [II].
- Open the CyberView X 5.0 driver program to scan the slide.

Attention! When using the single slide scanning function, please check the slide transport arm has been moved completely into the unit and the cover for magazine tunnel is taken off.

I.



II.



HOW TO SCAN SLIDES

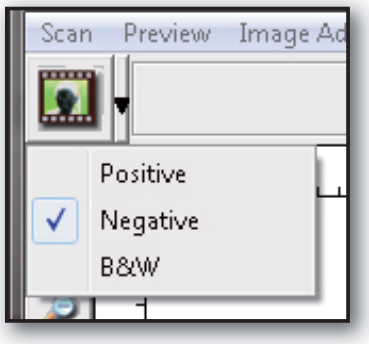
STEP 1 – Acquire Driver

(For PC User)
Open CyberView from Start – All Programs –CyberView

(For MAC User)
Open Macintosh Hard drive – Applications –CyberView

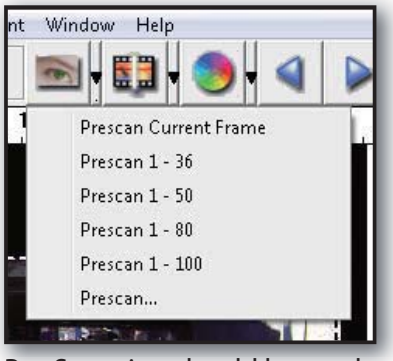
STEP 2 – Select Film Type

Select the film type to be scanned - Positive, Negative or B&W (Black and White).



STEP 3 – Optional Prescan

Select the "Prescan Current Frame" to prescan the slide currently loaded into the scanner or "Prescan..." to prescan slide or slides at specific positions in the magazine.



Pre-Scanning should be used to manually adjust color/edit settings for each slide before doing the final scan. It's possible to set different settings for each slide to be scanned.

STEP 4 – Set Scan Settings

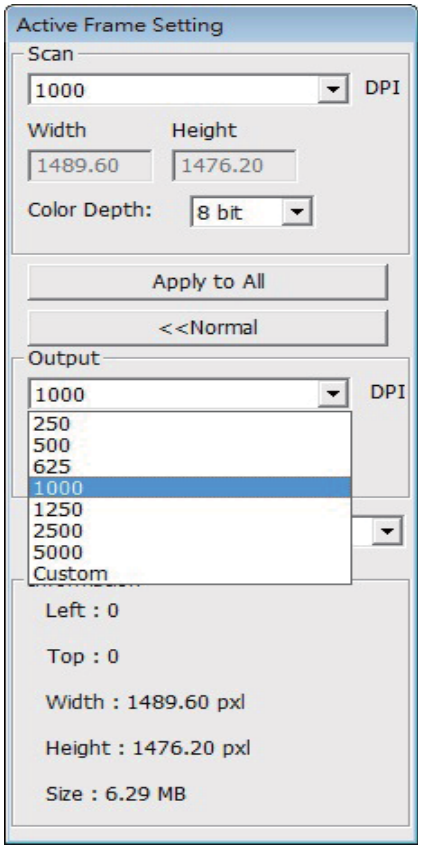
a. Resolution
The default scanning resolution is 1000dpi, additional resolution options are listed below.

Notice: Higher scanning resolutions result in greater scanning time and hardisk space requirements.

b. Color Depth
The Film Scanner color depth is 48 bit true color

The scanning software has the capability of selecting 8 bit color mode or 16 bit color mode when scanning, This will produce 24 or 48 bit color images, 8 bits or 16 bits per Red, Green and Blue color channels
Example:
8 bit mode = 8 red, 8 green and 8 blue for a total of 24 bit color (JPG or TIF)
16 bit mode = 16 red, 16 green and 16 blue for a total of 48 bit color (TIF only)

Note: Color image file size of different resolutions and color depths:



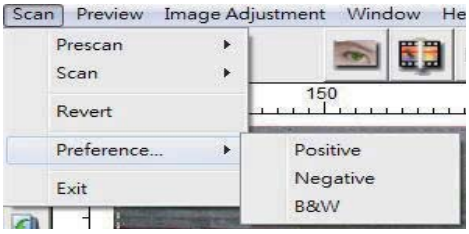
Scanning Resolution	Color Depth (by RGB channel)	Color Mode	File Size TIFF (no compression)
250dpi	8 bit	24-bit	~350Kb
500dpi	8 bit	24-bit	~1MB
625dpi	8 bit	24-bit	
1000dpi	8 bit	24-bit	
1250dpi	16 bit	48-bit	~11MB
2500dpi	16 bit	48-bit	
5000dpi	16 bit	48-bit	~52MB

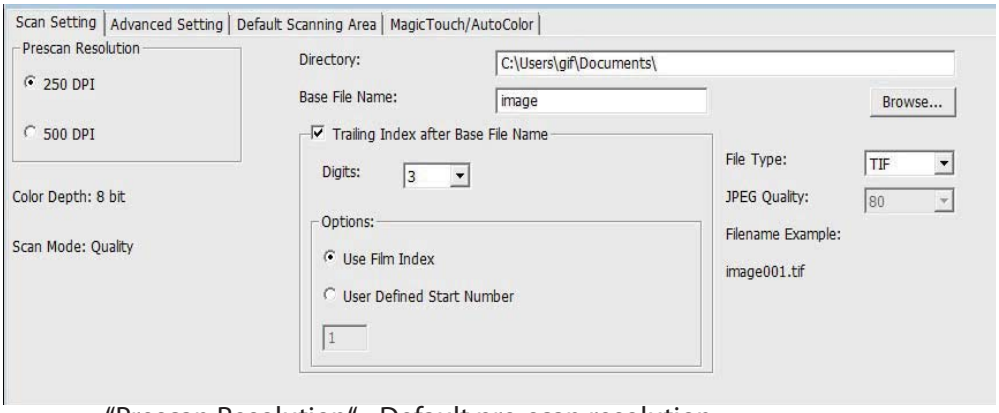
Scans include Auto Balance and Digtal Noise Reduction on:
Processor: AMD 9650 Quad-Core 2.3GHz
Memory: 2GB
System type: Vista 64 bit

Scan Mode – Normal mode produces a scan in jpeg format while Quality produces a non-compressed, "loss-less" TIFF image.

STEP 5 – Set Scan Preferences

Select Scan - Preference - Film Type - Scan Setting





"Prescan Resolution" - Default pre-scan resolution.

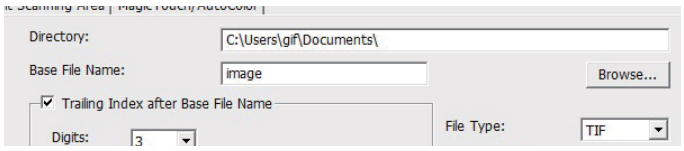
"Using default real scan resolution" - Enables default scan resolution setting.

"Color Depth" – Default color depth while scanning.

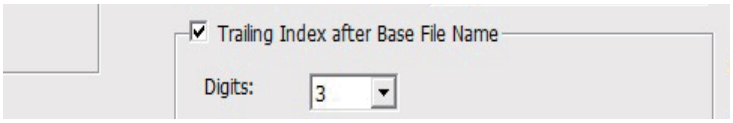
"Scan Mode" – Default scan mode while scanning.

Configuring Scan settings

1. Select Browse and choose the designated folder to save the scanned image to
2. Enter the file name.



3. Trailing Index after Base File Name Digits: Defines the length of the file name and numbering sequence up to 6 digits Example image1 or image000001.



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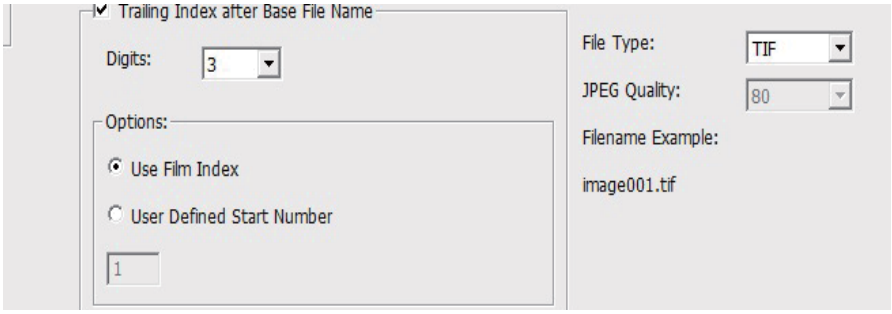
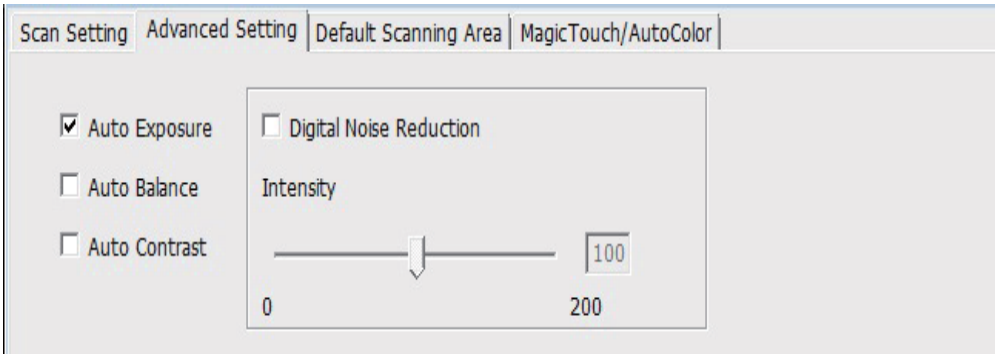
4. Options - Use Film Index: Use the number assigned to the slide based on it's position in the cartridge.
User Defined Start Number: Enter a specific start number

5. Choose the file type , "TIF" or "JPG". (TIF uncompressed or JPG Compressed- Choose image quality for JPEG. (20-100) 100 offers the least amount of compression



Advanced Setting



"Auto Exposure" - Attempts to find the correct exposure to get the widest range of whites and blacks while putting the middle grays at around the middle of the data range.

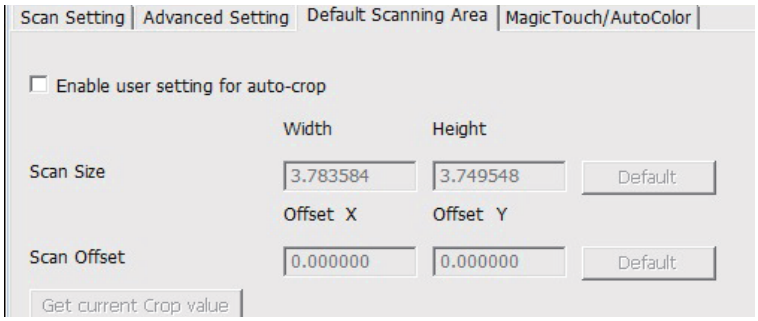
"Auto Balance" - Using the image histogram to balance RGB channels. It estimates images' color cast and adjust the images accordingly

"Auto Contrast" - The scanner software analyzes the data and automatically adjusts the Setting for the White and Black Points.

"Digital Noise Reduction" – Applies a filter, Reducing the film grain.

Default Scanning Area

Adjust the scanning size as well as adjust the "Scan Offset" setting to move the image position of slide.



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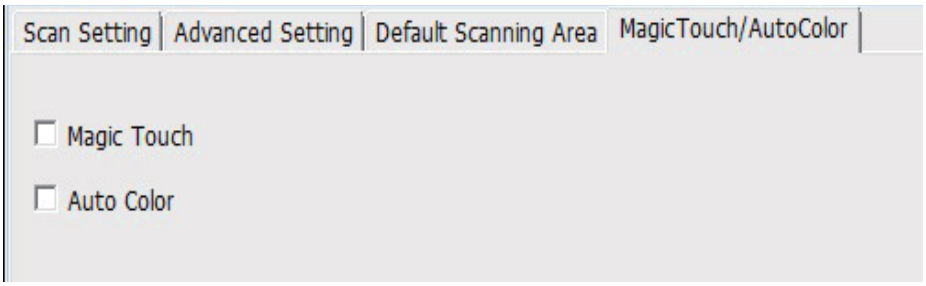
Magic Touch / Auto Color

Enable / disable Magic Touch and Auto Color adjustment to scans.

Magic Touch is a powerful dust and scratch removal technology that does away with the hassle of learning complex and tedious software techniques. Being hardware-based, it works seamlessly with the scanning process to ensure the best possible results when bringing images into the computer. Dust, scratches and other flaws are intelligently detected and eliminated, restoring the image to its original beauty. Magic Touch doesn´t work with B&W and Kodachrome Film. Please deactivate it.

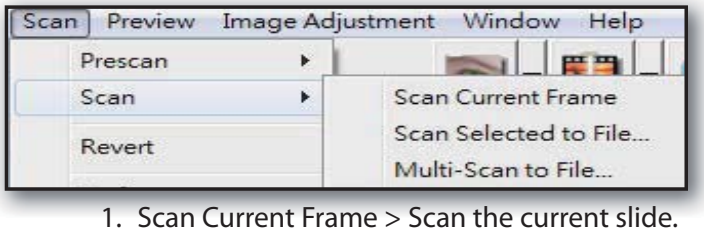
Scanning with Magic Touch requires longer scanning times, the feature is turned off by default.

Auto Color takes the guesswork out of the scanning process to streamline the workflow and achieve the best results. Proprietary color enhancement echnology is applied to scanned images to provide the most accurate color adjustment, resulting in vibrant images with optimal brightness, contrast and aturation.

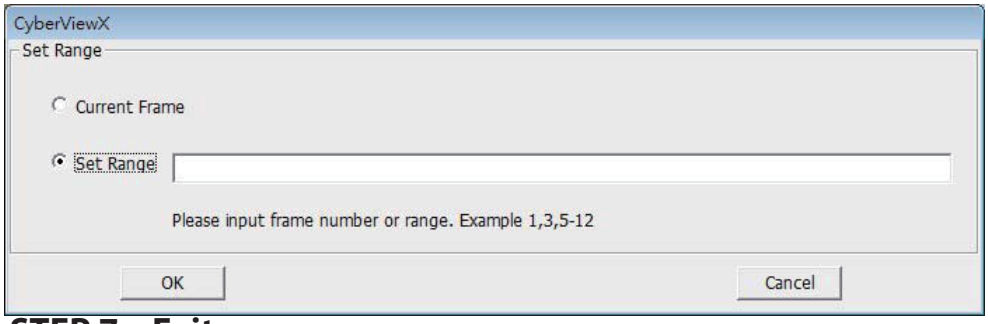


STEP 6 – Scan

To Scan a Single slide - Choose "Scan Current Frame" to scan the slide loaded into the scanner or "Multi-Scan…" to input the number of slides to be scanned based on their location in the magazine.



1. Scan Current Frame > Scan the current slide.
2. Scan Selected to File… > Scan the selected slide(s) to a specified path.
3. Multi-Scan to File… > Scan slide(s) numbers and/or range.

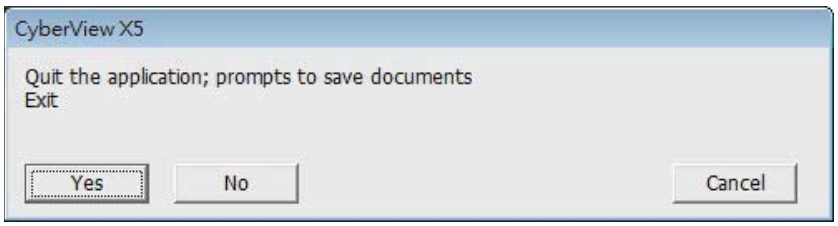


STEP 7 – Exit

All scanned images will be saved to the directory location set previously, the factory default locations are:

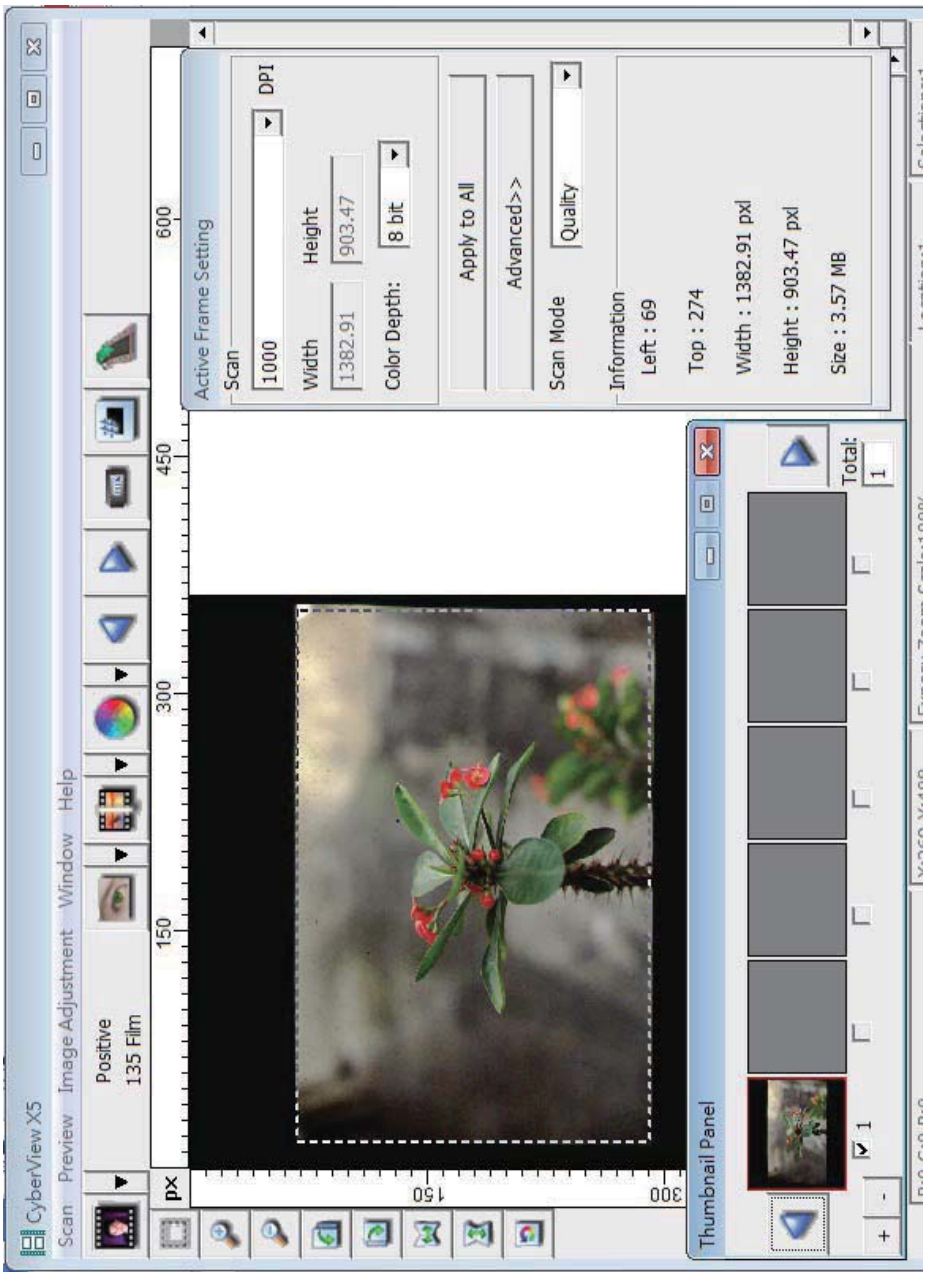
Windows: C:\Users\[YOUR NAME\Documents;
MAC: Mac HD\Users\[YOUR NAME]\Pictures\Cyberview Images),

Select "Scan > Exit" to close the driver. Scanned image files can be open/edited with any image editing software.



NOTE: If using the supplied image editor, for help with this application see the users Help from within the application or browse the supplied DVD for the help documentation.

USER INTERFACE



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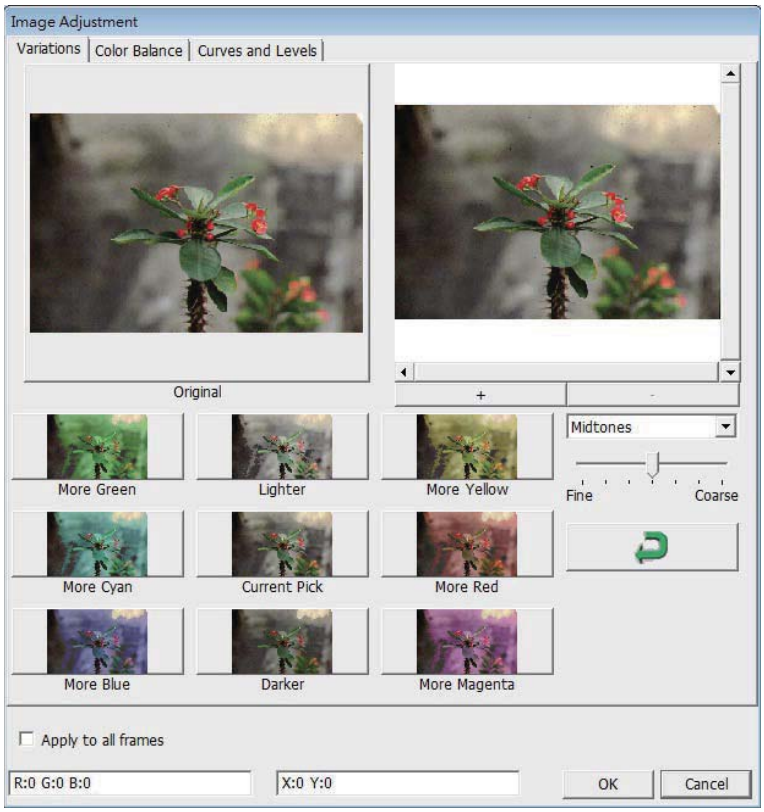
Menu Commands - **Preview**

1. **Zoom In**: Magnify image.
2. **Zoom Out**: Reduce image.
3. **Rotate 90 Left**: Turn the image 90° counter clockwise.
4. **Rotate 90 Right**: Turn the image 90° clockwise.
5. **Flip Horizontal**: Flip the image horizontally.
6. **Flip Vertical**: Flip the image vertically.
7. **Revert**: Discard all modifications and restores the image back original state in preview windows.

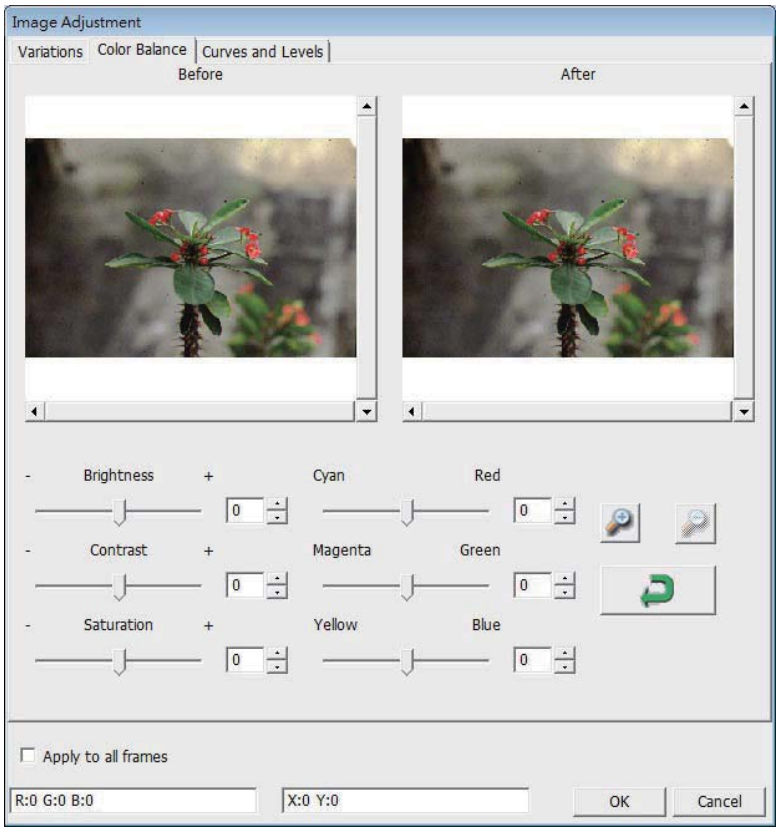
a. Image Adjustment

1. Variations: Generates different views of image with options changes to highlights, midtones, etc.



2. Color Balance

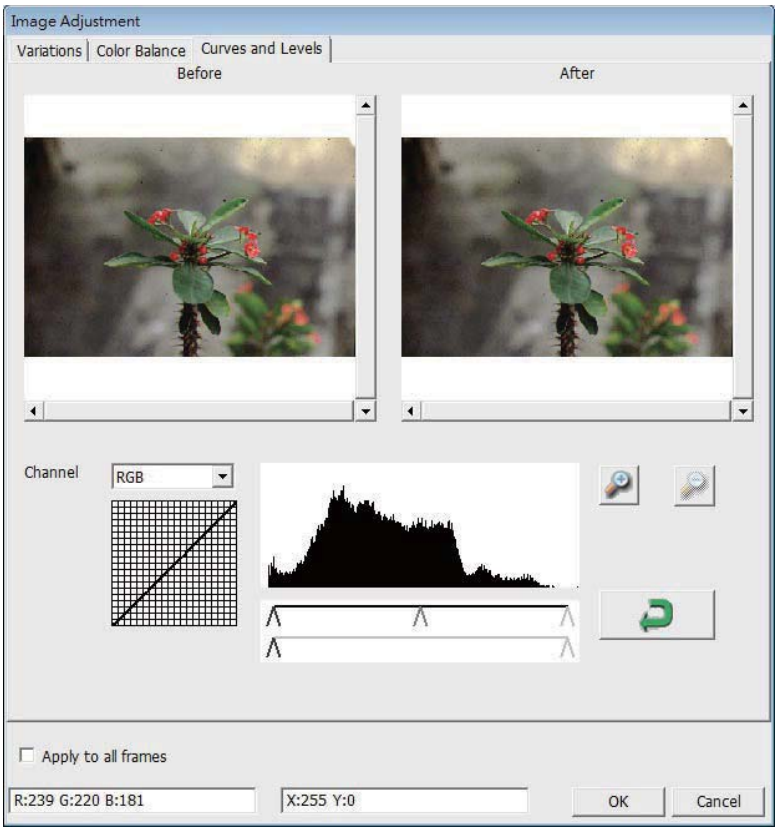
To adjust the brightness, contrast, saturation, and color (CMY or RGB) of the image. Comparisons between before and after adjusted images are shown for reference.



Example: If a previewed image appears too dark, use the "Brightness" slider in the Color Balance" window to adjust the image by selecting the slider in the center and moving it to the right. The image's "After" view becomes lighter. Select "OK" to accept the changes which will be sent to the scanning hardware. This can also be used to adjust each of the functions in "Color Balance" by contrast, saturation and specific olor ranges of cyan, magenta and yellow.

3. Curves and Levels

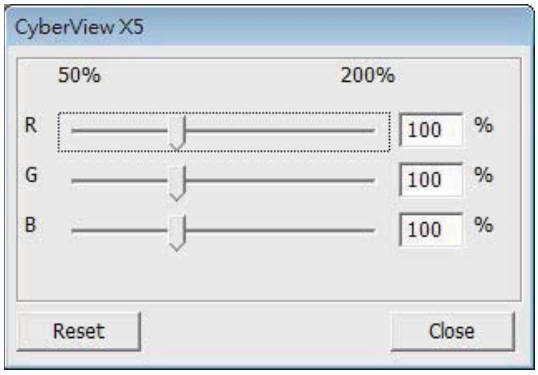
Adjust image settings by moving Curve and Levels settings. Comparison between before and after adjustment is display reference.



Example: When the previewed image appears to be too dark, adjustments with the Input slider in the Curves and Levels window can be made to correct the image. Selecting the Gray slider in the center and moving it to the left will result in changes in the "After" view resulting in a lighter image. Once the adjusted image is acceptable select "OK" to send changes to the scanning hardware. The same method can also be used to adjust each color channel independently, using the channel drop down menu "RGB = All colors" R = Red, G = Green, and B = Blu

Menu Commands - **Windows**

1. Exposure Setting: To adjust the exposure time (R, G, B) press "Reset" to restore to the default setting.

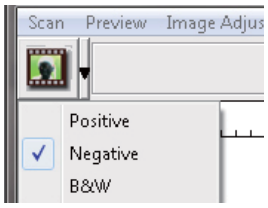


Menu Commands - **Help**

- **Update:** Firmware: Upgrade the firmware version.
- **About:** Displays system information (including operation system, CPU), product information (including product name, model name, hardware version, firmware version, software version, device information including interface and optical resolution).
- **You can download the firmware file and the manual from our website: www.reflecta.de**

Function Bar Diagram

In order to optimize scanned image quality, please select your film type and brand from the toolbar:



Negative
Positive (also known as Slide)
Black and White

Prescan: Pre-scan the current film, press drop down ▼ for more options.

Scan: Scan film, press drop down ▼ button for more options.

Image Adjustment: Press drop down ▼ button for more options.

Backward One Frame: Moves film back one frame.

Forward One Frame: Moves film forward one frame.

Reload Magazine: Reset the frame number, the location number will be returned to 1. Press this button before loading each magazine into the scanner.

Set Current Position: Change the current slide position number in the magazine.

Go to: A pop-up dialogue box will prompt to enter which frame to change to.

II. Preview Window Area [Fixed Windows]
Toolbar Diagram

Select scan area: more than one selection can be made at a time.

Zoom In: To magnify the image where the cursor is currently located. The image will be magnified with every click until the maximum multiple (1000%) is reached.

Zoom Out: To reduce the size of the viewed image click the Zoom Out cursor to the desired area, the image will reduce by half with every click until the lowest multiple (25%) is reached.

Rotate 90 Left: To rotate the image counter clockwise 90 degrees.

Rotate 90 Right: To rotate the image clockwise 90 degrees.

Revert: Discard all modifications and restores the image back to the original state in preview windows.

Function Bar Diagram

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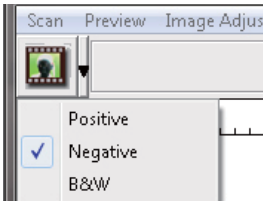

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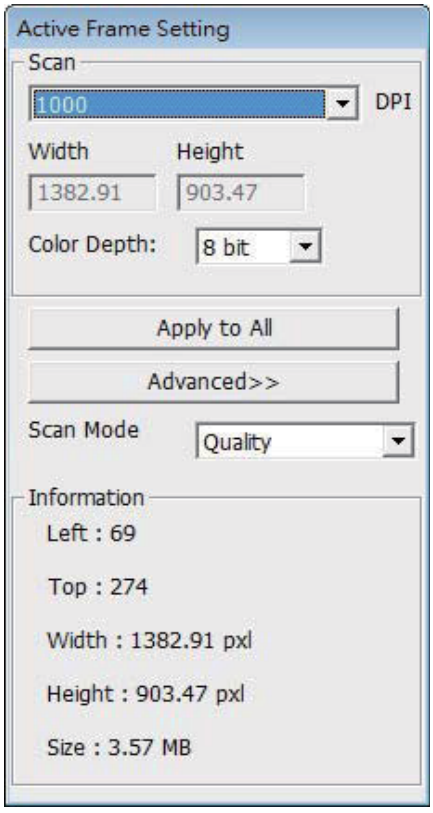
III. Active Frame Setting Area [Floating Windows]

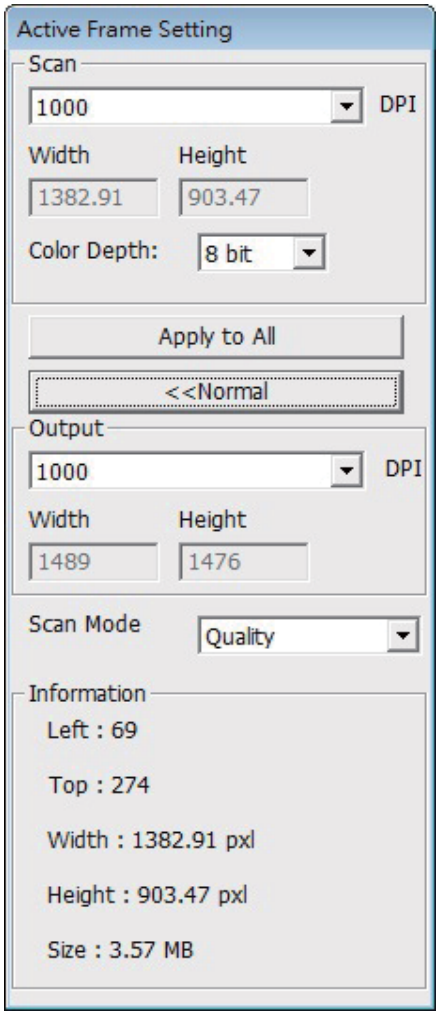
A comprehensive advanced mode is available to allow for more user defined adjustments.

Normal mode [ex: I] to input the basic parameter to scan (including scan resolution, film size, color depth).

Advanced mode [ex: II]to input the parameter of scan and output (including scan resolution, size, color depth and output resolution, size, scan mode).

The "**Active Frame Setting**" only imitates in the current preview image, click "Apply to All" to set parameters in all previewed images, does not apply to di scanning to file.

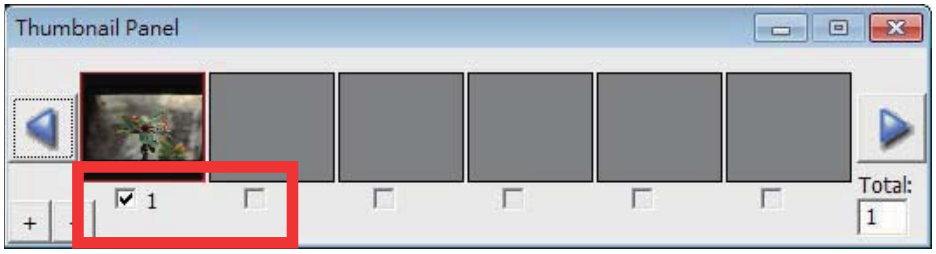




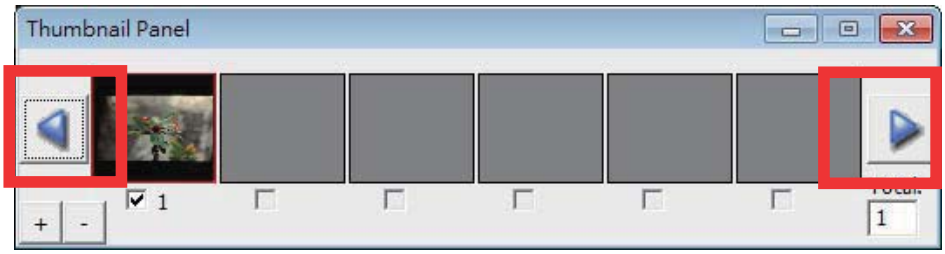
IV. Thumbnail Panel Area [Floating Windows]

Images only appear here in Prescan mode, scan to file goes directly to the hard drive, this window remains blank as does the main Cyberview window.

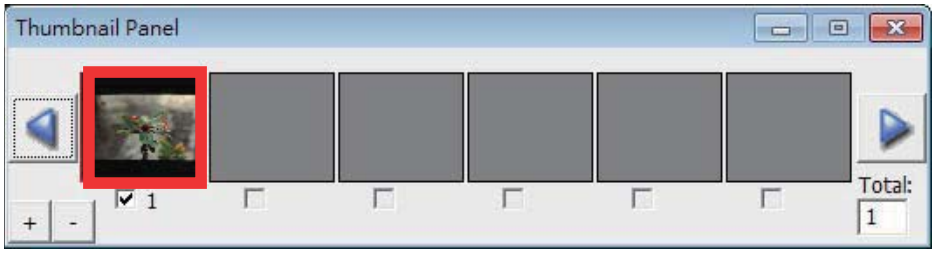
Displays thumbnail view of pre-scanned images. By default all pre-scanned images are selected. Note the small check mark below each image.



When scanning more than 6 frames (6 at a time are viewable in the thumbnail panel) you may scroll to view more by clicking on the right arrow button. The left / right arrow buttons allow you to scroll throught pre-scanned images with ease.



To de-select frames you do not wish to scan click on the check mark box to remove selection.



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TECHNICAL SUPPORT

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CyberView

For information regarding the film scanner, software and firmware please visit:
www.reflecta.de